Algebra/Data Analysis Toolkit: Indicator 3.2.2

Student Handout: Algebra/Data Analysis: Indicator 3.2.2

Goal 3.0 Data Analysis And Probability

Expectation 3.2 The student will apply the basic concepts of statistics and probability to predict possible outcomes of real-world situations.

Indicator 3.2.2 The student will interpret data and/or make predictions by finding and using a line of best fit and by using a given curve of best fit.

Assessment Limits:

Items should include a definition of the data and what it represents.

Data will be given when a line of best fit is required.

Equation or graph will be given when a curve of best fit is required.

Public Release - Selected Response Item - Released in 2009

Algebra/Data Analysis Indicator 3.2.2

The table below shows the number of words a student typed during five timed sessions.

STUDENT'S TYPING

Time (m) (in minutes)	2	3	4	6	9
Number of Words Typed (w)	122	182	240	368	538

Which equation best models a line of best fit for these data?

A. $w = 3m + 60$
B. $w = 60m + 3$
C. $w = 102m - 117$
D. $w = -117m + 102$

Correct Answer
B. $w = 60m + 3$

Item

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